

WHAT IS CLAIMED IS:

1. A polyester composition, comprising:

at least one polyester derived from a condensation of a 1,4-cyclohexane di-methanol and at least one of a dicarboxylic acid and an ester of said dicarboxylic acid, said polyester composition between approximately 90% to 97% by weight of said at least one polyester;

5 at least one primary anti-oxidant defined as at least one of an alkyl and an alkyl peroxy radical scavenger, said polyester composition between approximately 0.1% to 5% by weight of said at least one primary anti-oxidant;

at least one secondary anti-oxidant defined as a compound capable of decomposing a hydroperoxide, said polyester composition between approximately 0.1% to 5% by weight of said

10 at least one secondary anti-oxidant; and

at least one polyamide terpolymer, said polyester composition between approximately 1% to 4% by weight of said at least one polyamide terpolymer.

2. The polyester composition of claim 1, further including at least one hydrolysis stabilizer, said polyester composition between approximately 0.5% to 2% by weight of said at least one hydrolysis stabilizer.

3. The polyester composition of claim 1, wherein said at least one polyester includes a condensation product of a 1,4-cyclohexane di-methanol and at least one of a terephthalic acid and an ester derivative of said terephthalic acid.

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4. The polyester composition of claim 3, wherein said at least one polyester includes a condensation product of a 1,4-cyclohexane di-methanol terephthalic and at least one of a isophthalic acid and an ester derivative of said isophthalic acid.

5. The polyester composition of claim 1, wherein said at least one primary anti-oxidant includes a hindered phenolic compound.

6. The polyester composition of claim 1, wherein said at least one secondary anti-oxidant includes a phosphite.

7. The polyester composition of claim 2, wherein said at least one hydrolysis stabilizer includes at least one of a monomeric carbodiimide and a polymeric carbodiimide.

8. The polyester composition of claim 1, further including a polyamide terpolymer stabilizer having a melting point between approximately 120° to 220°.

9. The polyester composition of claim 8, wherein said polyamide terpolymer stabilizer includes a copolymer of three different amide repeat units.

10. A monofilament, comprising:
at least one of a yarn and a fiber, said at least one of a yarn and a fiber including a polyester composition having:

at least one polyester derived from a condensation of a 1,4-cyclohexane di-methanol and
5 at least one of a dicarboxylic acid and an ester of said dicarboxylic acid, said polyester
composition between approximately 90% to 97% by weight of said at least one polyester;

at least one primary anti-oxidant defined as at least one of an alkyl and an alkyl peroxy
radical scavenger, said polyester composition between approximately 0.1% to 5% by weight of
said at least one primary anti-oxidant;

10 at least one secondary anti-oxidant defined as a compound capable of decomposing a
hydroperoxide, said polyester composition between approximately 0.1% to 5% by weight of said
at least one secondary anti-oxidant; and

at least one polyamide terpolymer, said polyester composition between approximately
1% to 4% by weight of said at least one polyamide terpolymer.

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11. A papermachine clothing, comprising:

at least one monofilament having at least one of a yarn and a fiber, said at least one of a
yarn and a fiber including a polyester composition having:

at least one polyester derived from a condensation of a 1,4-cyclohexane di-methanol and
5 at least one of a dicarboxylic acid and an ester of said dicarboxylic acid, said polyester
composition between approximately 90% to 97% by weight of said at least one polyester;

at least one primary anti-oxidant defined as at least one of an alkyl and an alkyl peroxy
radical scavenger, said polyester composition between approximately 0.1% to 5% by weight of
said at least one primary anti-oxidant;

10 at least one secondary anti-oxidant defined as a compound capable of decomposing a
hydroperoxide, said polyester composition between approximately 0.1% to 5% by weight of said
at least one secondary anti-oxidant; and

at least one polyamide terpolymer, said polyester composition between approximately 1% to 4% by weight of said at least one polyamide terpolymer.

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12. A papermachine clothing, comprising:

a polyester composition having:

at least one polyester derived from a condensation of a 1,4-cyclohexane di-methanol and at least one of a dicarboxylic acid and an ester of said dicarboxylic acid, said polyester

5 composition between approximately 90% to 97% by weight of said at least one polyester;

at least one primary anti-oxidant defined as at least one of an alkyl and an alkyl peroxy radical scavenger, said polyester composition between approximately 0.1% to 5% by weight of said at least one primary anti-oxidant;

10 at least one secondary anti-oxidant defined as a compound capable of decomposing a hydroperoxide, said polyester composition between approximately 0.1% to 5% by weight of said at least one secondary anti-oxidant; and

at least one polyamide terpolymer, said polyester composition between approximately 1% to 4% by weight of said at least one polyamide terpolymer.